

BRUNSWICK PUBLIC LIBRARY

Frederick County, Maryland



PHOTOGRAPHY BY DON HARPER

DID YOU KNOW?

The LEED credit for diverting construction waste from landfills requires builders to keep 50-75% of their waste out of landfills. The contractors were able to divert 97% of their waste, earning the library bonus points on LEED certification for going above and beyond the requirements for the credit. The facility also exceeds the water use reduction standard of the LEED checklist, which only requires a 20-30% reduction. The Brunswick Library uses 43% less water than a conventional facility.

Materials Recycled	Tons of material
Asphalt & Concrete aggregate	761.6
Drywall & Gypsum	5.2
Carpet & Glass	9.75
Total Recycled Materials	810.97
Total Waste Materials	19.77
Total Materials	830.74



PROJECT DESCRIPTION

Frederick County's Brunswick Public Library is the first county-owned facility to be registered in the U.S. Green Building Council's Leadership in Energy and Environmental Design, or LEED®, rating system.

The new 15,000-square-foot building at 915 North Maple Avenue replaces the branch's former 2,500-square-foot home at that same location. An expanded collection of books and media, more public access computers, two quiet study rooms, and a public meeting room are among the library's many features. The facility also features a children's room, teen zone, adult reading room, and wireless internet connection throughout the facility.

Visit www.fcpl.org/information/branches/brunswick/ for additional details including directions, hours of operation and program offerings.

“Frederick County Government is committed to ensuring that building projects use strategies that enhance environmental performance and fiscal efficiencies, in an affordable and sustainable manner.”

- Blaine Young, President, Board of County Commissioners

GREEN DESIGN FEATURES

The Brunswick Public Library is a registered LEED project; the project has applied for 34 of 69 points, which if accepted, will certify the project at the Silver level.

Sustainable Sites

- ✓ Chose to build the new library on the previous building's footprint.
- ✓ Provided preferred parking for low-emitting and/or fuel efficient vehicles.
- ✓ Covered 100% of the roof with Firestone white TPO roofing and PAC-CLAD Metallic Silver reflective materials, both of which reduce heat absorption.

Water Efficiency

- ✓ Utilized dual flush toilets, low flow urinals, and aerators to achieve a total water savings of 42%.
- ✓ Incorporated water-efficient landscaping to reduce water use by 50%.

Energy & Atmosphere

- ✓ Utilizes on-demand water heaters so there is no electricity wasted keeping water hot in a tank.
- ✓ Utilizes only fluorescent or LED energy saver rated bulbs throughout the building.

Materials & Resources

- ✓ Diverted over 75% of their construction waste from landfills to Ritchie Land Reclamation, Georgetown Paper Stock, Gypsum Agri-Cycle, and RM Brokerage.
- ✓ Utilized materials with an overall recycled content of 17%; 21% of overall materials were extracted and manufactured within 500 miles of the job site.
- ✓ 52% of all wood used on the project was Forest Stewardship Council (FSC) certified, coming from well-managed, sustainably-harvested forests.

Indoor Environmental Quality

- ✓ Utilized all low-VOC paint, adhesives, and sealants and an all-urea-formaldehyde-free wood.
- ✓ 99% of all regularly occupied spaces have access to outdoor views, with 90% daylight penetration throughout the building.
- ✓ Surveyed occupant's thermal comfort to determine optimum temperature.

Innovation in Design

- ✓ Exemplary performance in Construction Waste Management; Water efficiency; LEED Accredited professional; and provision of Green Educational materials.

*“Providing opportunities to educate citizens, developers, and contractors in **green building practices** is essential to their understanding and ultimate acceptance of an evolving technology.”*

-Sustainable Action Plan for County Operations, 2010

Owner	Frederick County Government
Location	915 N. Maple Avenue, Brunswick MD
LEED Rating	Silver
Building Type	Public Branch Library
Building Area	15,000 square feet
Site Area	1.59 Acres
Architect	Morris & Ritchie Associates
Civil Engineering	Loiederman Soltesz Associates, Inc.
Contractor	Morgan-Keller Inc.
Interior Design	Sugar Associates
Architectural Consultant	Lorax Partnerships LLC
Electricity	Allegheny Power
IIT/Telephone	Provided by County
Cable Television	Comcast
Total Estimated Cost	Approx. \$4 million
Construction Cost (base bid)	\$2,856,000



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